



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Norris et al.

Examiner: KIM, Hong Chong

Serial No.: 10/657,793

Group Art Unit: 2185

Filing Date: 9/8/2003

Atty Docket No.: CML00107D-P01

Title: Method and Apparatus for Addressing a Vector of Elements in a Partitioned Memory Using Stride, Skip and Span Values

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

The undersigned submits herewith patents, publications or other information (enclosed herewith and/or listed on the enclosed list of references form) of which he or she is aware, which he or she believes is relevant and may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR §1.56. The order of listing of the references on the attached form and any appendix hereto is without regard for relative relevance to the present invention.

This Information Disclosure Statement is submitted:

- ☐ under 37 CFR §1.97(a), or
(Accompanies the new patent application submitted herewith.)
- ☐ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last.)
- ☒ under 37 CFR 1.97(c) together with either a:
☐ Statement under 37 CFR 1.97(e), or
☒ a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first.)
- ☐ under 37 CFR 1.97(d) together with a:
☐ Statement under 37 CFR 1.97(e), and
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(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee.)
- ☒ Applicant(s) submit herewith Form PTO 1449-Information Disclosure Citation together with required copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.
- ☐ PRIOR APPLICATIONS References identified with an asterisk (*) in the enclosed PTO Form 1449, were disclosed in prior Patent Application No. , filed , now U.S. Patent No. , and, as such, copies thereof are not included pursuant to the provisions of 37 CFR 1.98(d).

☐ **FOREIGN LANGUAGE DOCUMENTS** A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on Form PTO 1449 and is enclosed herewith.

☒ **FEE AUTHORIZATION**

Please see enclosed Credit Card Payment Form. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **50-0375** pursuant to 37 CFR 1.25.

While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR §1.56, this statement does not constitute an admission that any patent, publication or other information referred to therein is "prior art" or "material" to this invention or any application for patent for this invention.

In accordance with 37 CFR §1.97, the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that other information that may be material as defined in 37 CFR §1.56 exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR §1.97 and §1.98 and MPEP §609. In addition, the Examiner is requested to conduct a thorough independent search in order to bring the best references available forward in this application.

It is requested that the information disclosed herein be made of record in this application.

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Date of Deposit: March 3, 2006

Typed Name: Paula Barton

Signature: _____

Respectfully submitted,



Renee' Michelle Leveque
Attorney/Agent for Applicant(s)
Reg. No. 36,193
Date: March 3, 2006
Telephone No.: 301-668-3073



PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
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				Application Number	10/657,793
				Filing Date	9/8/2003
				First Named Inventor	Norris et al.
				Art Unit	2185
				Examiner Name	KIM, Hong Chong
				Attorney Docket Number	CML00107D-P01
Sheet	1	of	2		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		3,718,912	Feb-73	Hasbrouck et al.	
		4,760,545	Jul-88	Inagami et al.	
		4,825,361	Apr-89	Omoda et al.	
		4,807,183	Feb-89	Kung et al.	
		5,367,494	Nov-94	Shebanow et al.	
		5,495,817	Feb-96	Tamada	
		6,052,766	Apr-00	Betker et al.	
		6,173,389	Jan-01	Pechanek et al.	
		5,652,909	Jul-97	Kodosky	
		6,437,804	Aug-02	Ibe et al.	
		6,442,701	Aug-02	Hurd	
		6,571,016	May-03	Mehrotra et al.	
		5,734,863	Mar-98	Kodosky et al.	
		5,790,877	Aug-98	Nishiyama et al.	
		5,805,614	Sep-98	Norris	
		5,821,934	Oct-98	Kodosky et al.	
		5,881,257	Mar-99	Glass et al.	
		5,881,263	Mar-99	York et al.	
		5,893,143	Apr-99	Tanaka et al.	
		5,936,953	Aug-99	Simmons	
		5,966,528	Oct-99	Wilkinson et al.	
		5,969,975	Oct-99	Glass et al.	
		5,999,736	Dec-99	Gupta et al.	
		6,064,819	May-00	Franssen et al.	
		6,128,775	Oct-00	Chow et al.	
		6,192,384	Feb-01	Daily et al.	
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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FOREIGN PATENT DOCUMENTS						
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				Filing Date	9/8/2003
				First Named Inventor	Norris et al.
				Art Unit	2185
				Examiner Name	KIM, Hong Chong
				Attorney Docket Number	CML00107D-P01
Sheet	1	of	1		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		LAM, M., Software Pipelining: An Effective Scheduling Technique for VLIW Machines, Proceedings of the SIGPLAN '88 Conference on Programming Language Design and Implementation, Atlanta, Georgia, June 22-24, 1988, pp. 318-328	
		LEE, T. et al., A Transformation-Based Method for Loop Folding, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, Vol. 13, No. 4, April 1994, pp. 439-450	
		KAVI, K.M. et al., A Formal Definition of Data Flow Graph Models, IEEE Transactions on Computers, Vol C-35, No. 11, Nov 1986, pp. 940-948	
		COOPER, K.D. et al., Efficient Computation of Flow Insensitive Interprocedural Summary Information, SIGPLAN Notices, Vol. 19, No. 6, June 1984, pp. 247-258	
		STRONG, H.R., Vector Execution of Flow Graphs, Journal of the Association for Computing Machinery, Vol 39, No. 1, January 1983, pp. 186-196	
		AIKEN, A. et al., Resource-Constrained Software Pipelining, IEEE Transactions on Parallel and Distributed Systems, Vol. 6, No. 12, December 1995, pp. 1248-1270	

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